Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

APPROPRIATION/BUDGET ACTIVITY

PE 0603564N: Ship Prel Design & Feasibility Studies

DATE: February 2011

BA 4: Advanced Component Development & Prototypes (ACD&P)

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	30.928	1.796	22.213	-	22.213	26.522	35.965	35.660	19.399	Continuing	Continuing
0408: Ship Development (ADV)	5.373	0.437	-	-	-	-	-	-	-	0.000	5.810
0409: DDG-51 Flt III Concept Development	6.925	-	5.707	-	5.707	14.879	15.304	7.962	-	0.000	50.777
2474: LSD Design & Total Ship Integration	-	-	6.588	-	6.588	11.643	20.661	27.698	19.399	Continuing	Continuing
3195: <i>JCC(X)</i>	7.007	-	-	-	-	-	-	-	-	0.000	7.007
3226: Green Water Craft	1.425	1.359	-	-	-	-	-	-	-	0.000	2.784
3261: TAGOS Design & Total Ship Integration	-	-	9.918	-	9.918	-	-	-	-	0.000	9.918
9999: Congressional Adds	10.198	-	-	-	-	-	-	-	-	0.000	10.198

A. Mission Description and Budget Item Justification

0408 - SURFTECH - Ship Development project supports the evaluation of advanced and alternative technologies through the Surface Ship Technology (SURFTECH) process for suitability for meeting total ship concepts capability needs.

- OCEAN CLASS AGOR FY10 Ship Preliminary Design and Feasibility Studies to support procurement of two AGOR ocean Class vessels in FY11 and FY12.
- LCC Class ESA Assessments of the LCC 19 & 20 will be conducted to determine life extensions under project 0408.
- 0409 DDG 51 FLT III Concept Development Develop Preliminary Analysis, Testing, and Design for introduction of DDG 51 FLT III in FY16.
- 2474 LSD(X) is expected to functionally replace LSD 41 class (8 ships) and LSD 49 class (4 ships) for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. New design efforts are required to identify viable alternatives, including examining a reduced cost variant of LPD 17 Class. Funding supports JCIDS, GATE and Milestone processes. LSD(X) was previously budgeted in PE 0604311N.
- 3195 JCC(X) was planned as a mobile, self-sustaining platform with robust C4ISR capability for a Joint Force Commander and staff and provides in-theater command and control should a land-based headquarters be unavailable, constrained or threatened.

Navy Page 1 of 24 R-1 Line Item #45

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0603564N: Ship Prel Design & Feasibility Studies

BA 4: Advanced Component Development & Prototypes (ACD&P)

3226 - Green Water Craft will provide maritime security, stability operations, and increased maritime domain awareness in compliance with Global Maritime Security objectives and in direct support of Global Fleet Stations (GFS). Funding will provide for craft feasibility and sizing study and subsystem mockups in support of initial craft production.

3261 - Preliminary Ship Design and Contract efforts to support procurement of a T-AGOS Class vessel in FY13.

T-AGOS ocean surveillance ships have a single mission to gather underwater acoustical data and operate to support the anti-submarine warfare mission.

Congressional Adds:

Support for Naval Ship Hydrodynamic Test Facility, Bow Lifting Body Ship Research and Low Signature Defensive Weapon System for Surface Combatant Craft.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	38.197	1.796	0.285	-	0.285
Current President's Budget	30.928	1.796	22.213	-	22.213
Total Adjustments	-7.269	-	21.928	-	21.928
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	-6.995	-			
SBIR/STTR Transfer	-0.224	-			
Program Adjustments	-	-	22.194	-	22.194
 Section 219 Reprogramming 	-0.040	-	-	=	-
 Rate/Misc Adjustments 	-	-	-0.266	-	-0.266
 Congressional General Reductions 	-0.010	-	-	-	-
Adjustments					

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: Congressional Adds

Congressional Add: Low Signature Defensive Weapon System for Surface Combatant Craft

Congressional Add: SUPPORT FOR NAVAL SHIP HYDRODYNAMICS TEST FACILITI

Congressional Add: Bow Lifting Body Ship Research

	FY 2010	FY 2011
	2 924	
	3.824	-
	3.187	-
	3.187	_
9	10.198	_

Congressional Add Subtotals for Project: 9999

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) PE 0603564N: Ship Prel Design & Feasibility Studies

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Congressional Add Totals for all Projects

FY 2010 FY 2011 10.198 -

Change Summary Explanation

DDG-51 Flt III - Reflects approved new start reprogramming request initiating Flight III Concept Study in FY10. FY12 - begins Preliminary Design efforts to reflect Flight III impacts on DDG 51 Class ships, to include superstructure structural modifications, air conditioning plant upgrades, and additional Ship Service Electrical Power increase.

JCC(X) - Decrease in FY10 Reflects LCC(R) program deferrment.

LSD(X) - Begin new design efforts in FY12 that are required to identify viable alternatives, including examining a reduced cost variant of LPD 17 Class.

T-AGOS - Conduct Preliminary ship Design and Contract efforts to support procurement of a T-AGOS Class vessel in FY13.

Navy Page 3 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy										ruary 2011		
APPROPRIATION/BUDGET ACTIV	R-1 ITEM N	IOMENCLA'	TURE	PROJECT								
1319: Research, Development, Test	PE 0603564	4N: Ship Pre	el Design & F	Development (ADV)								
BA 4: Advanced Component Development & Prototypes (ACD&P)				Studies								
COST (¢ in Millions)			FY 2012	FY 2012	FY 2012					Cost To		
COST (\$ in Millions)	FY 2010	FY 2011	Base	осо	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost	
0408: Ship Development (ADV)	5.373	0.437	-	-	-	-	-	-	-	0.000	5.810	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0			

A. Mission Description and Budget Item Justification

This project unit supports three efforts.

SURFTECH - The evaluation of advanced and alternative technologies through the Surface Ship Technology (SURFTECH) process for examining suitability for meeting total ship concepts capability needs. The objective of this project is to provide decision makers with feasible, affordable alternatives to be selected for further development. In support of surface ship advanced technology development and transformation, the surface ship community has instituted a technology evaluation process to coordinate, identify, prioritize, and integrate technology insertion and development efforts and assist RDT&E community efforts to initiate appropriate technology development. The current acquisition guidelines require the development of critical technologies after Milestone A. If significant gap analysis, planning, and early development efforts are not conducted in parallel with Concept Development the Navy will not be able to provide broad, cross-platform direction to surface navy development efforts in an effective manner and will not effectively leverage limited resources to quicken the pace of both development and transition of critical mission technologies for timely acquisition.

AGOR OCEAN - Funding supports the acquisition of general purpose research vessels which will conduct science, educational and engineering operations in all oceans, and will be operated by the University Oceanographic Laboratory System (UNOLS).

LCC Class ESA - Assessments of the LCC 19 & 20 will be conducted to determine life extensions under project 0408.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Ocean Class AGOR	0.915	-	-
Articles:	0		
FY 2010 Accomplishments:			
Continued support for necessary preliminary efforts in order to award detail design and procurement contract.			
Title: SURFTECH	0.510	0.437	-
Articles:	0	0	
FY 2010 Accomplishments:			
Continued identification, prioritization, and integration of technology insertion and development efforts and assist the RDT&E			
community efforts to initiate appropriate technology development. SURFTECH will provide continuous analysis of and feedback to			

Navy Page 4 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: Fe	bruary 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P) R-1 ITEM NOMENCLATURE PE 0603564N: Ship Prel Design & Feasibility Studies PROJECT 0408: Ship Development (ADV)							
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	uantities in Each <u>)</u>		FY 2010	FY 2011	FY 2012		
ongoing technology development efforts to ensure project relevance be documented in the Technology Plan.	and timely transition to meet acquisition schedules,	which will					
FY 2011 Plans: Continued identification, prioritization, and integration of technology is community efforts to initiate appropriate technology development. Stongoing technology development efforts to ensure project relevance be documented in the Technology Plan.	JRFTECH will provide continuous analysis of and fee	edback to					
Title: LCC CLASS ESA		Articles:	3.948 0	-	-		
FY 2010 Accomplishments: Conducted Extended Sustainment Assessments as directed by OPN Whitney (LCC 20). Efforts are focused on assessing major Hull Med what is required to ensure operational availability, and build proposal are complete, recommendations are being developed, and presentat	hanical & Engineering (HM&E) and C5I system, dete to extend service life to 2029 (60 years). Initial ass	ermining					
			5.373	0.437			

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
SCN/5087: Oceanographic Ships	0.000	88.561	89.000	0.000	89.000	0.000	0.000	0.000	0.000	0.000	177.561

D. Acquisition Strategy

N/A

E. Performance Metrics

NONE

Page 5 of 24 R-1 Line Item #45 Navy

Exhibit R-2A, RDT&E Project Justifi	cation: PE	3 2012 Navy					DATE : February 2011		
APPROPRIATION/BUDGET ACTIVIT	R-1 ITEM N	OMENCLAT	URE	PROJECT	СТ				
1319: Research, Development, Test &	PE 0603564N: Ship Prel Design & Feasibility 040					0409: DDG-51 Flt III Concept Development			
BA 4: Advanced Component Developr	Studies								
	EV 2012	EV 2012					Cost To		

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0409: DDG-51 Flt III Concept Development	6.925	-	5.707	-	5.707	14.879	15.304	7.962	-	0.000	50.777
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

DDG 51 FLT III Concept Development study - Funding is provided in FY 2010 to evaluate design options associated with FLT III.

In accordance with the approved FY 2010 reprogramming request, the Department intends to reprogram funding to support required FY 2011 efforts.

DDG 51 FLT III Preliminary Design - Funding is provided beginning in FY 2012 for preliminary design efforts associated with introduction of Flight III in FY16. The current plan will support the Finite Element Analysis (FEA) of the Deckhouse Structure, EMX Analysis, which will include Electromagnetic Signatures, Electromagnetic Interference (EMI), Electromagnetic Pulse (EMP), and Radiation Hazard. It will also include Electrical Power capability increase and Distribution analysis, Cooling Systems analysis, Topside Signature testing, and Weight and Stability analysis and life cycle margin improvement.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Proj:0409 DDG-51 Flt III Concept Development	6.925	-	5.707
Articles	0		0
FY 2010 Accomplishments: Flight III Concept Development initiated in FY10.			
FY 2012 Plans: Begin Preliminary Design efforts to reflect Flight III impacts on DDG 51 Class ships, to include superstructure structural modifications, air conditioning plant upgrades, and additional Ship Service Electrical Power increase.			
Accomplishments/Planned Programs Subtotals	6.925	-	5.707

C. Other Program Funding Summary (\$ in Millions)

			<u>FY 2012</u>	FY 2012	FY 2012					Cost Io	
<u>Line Item</u>	FY 2010	FY 2011	Base	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• SCN/2122: DDG 51 Class	2,483.578	2,970.174	2,319.432	0.000	2,319.432	3,405.523	3,181.055	2,995.554	2,513.377	4,437.368	81,401.161

D. Acquisition Strategy

DDG 51 FLT III - Acquisition Strategy will support production of DDG 51 FLT III.

Navy Page 6 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603564N: Ship Prel Design & Feasibility Studies	PROJECT 0409: DDG-51 Flt III Concept Development
E. Performance Metrics None		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603564N: Ship Prel Design & Feasibility

Studies

DATE: February 2011

PROJECT

0409: DDG-51 Flt III Concept Development

Product Development (\$	in Millio	ns)		FY 2	2011	FY 2 Ba	2012 se	FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DDG 51 FLT III Concept Study	WR	NSWC:Dahlgren, VA	1.230	-		-		-		-	0.000	1.230	
DDG 51 FLT III Concept Study	WR	NSWC:Carderock, MD	0.940	-		-		-		-	0.000	0.940	
DDG 51 FLT III Concept Study	WR	SPAWAR:Charleston, SC	0.180	-		-		-		-	0.000	0.180	
DDG 51 FLT III Concept Study	FFRDC	JHU:Baltimore, MD	0.666	-		-		-		-	0.000	0.666	
DDG 51 FLT III Concept Study	MIPR	CPSD:Columbia, SC	0.500	-		-		-		-	0.000	0.500	
DDG 51 FLT III Concept Study	C/CPAF	BIW:Bath, ME	0.500	-		-		-		-	0.000	0.500	
DDG 51 FLT III Concept Study	WR	NRL:Washington, DC	0.127	-		-		-		-	0.000	0.127	
DDG 51 FLT III Concept Study	C/CPAF	NGSB:Pascagoula, MS	0.500	-		-		-		-	0.000	0.500	
DDG 51 FLT III Concept Study	C/CPAF	Seaport:Washington, DC	1.654	-		-		-		-	0.000	1.654	
DDG 51 FLT III Concept Study	MIPR	DTIC:Ft. Belvoir, VA	0.225	-		-		-		-	0.000	0.225	
DDG 51 FLT III Concept Study	Various	Various:Washington, DC	0.403	-		-		-		-	0.000	0.403	
DDG 51 FLT III Preliminary Design	WR	NSWC:Carderock, MD	-	-		3.000	Feb 2012	-		3.000	8.000	11.000	
DDG 51 FLT III Preliminary Design	C/CPAF	Seaport:Washington, DC	-	-		2.707	Feb 2012	-		2.707	7.400	10.107	
DDG 51 FLT III Contract Design	WR	NSWC:Dahlgren, VA	-	-		-		-		-	22.745	22.745	
		Subtotal	6.925	-		5.707		-		5.707	38.145	50.777	
			Total Prior Years Cost	FY 2	2011		2012 Ise	FY 2	2012 CO	FY 2012 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	6.925	-		5.707		-		5.707	38.145	50.777	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PROJECT

0409: DDG-51 Flt III Concept Development
Studies

		FY 2010		FY 2011			FY 2012		FY 2013			FY 2014		FY 2015			FY 2016									
	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3	4
Proj 0409				•		*				•			•			,										
DDG 51 FLT III Concept Development																										
DDG 51 FLT III Preliminary Design																										
DDG 51 FLT III Contract Design																										

Navy Page 9 of 24 R-1 Line Item #45

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PATE: February 2011

R-1 ITEM NOMENCLATURE
PE 0603564N: Ship Prel Design & Feasibility
Studies

Schedule Details

	St	art	End		
Events by Sub Project	Quarter	Year	Quarter	Year	
Proj 0409					
DDG 51 FLT III Concept Development	4	2010	2	2011	
DDG 51 FLT III Preliminary Design	2	2012	1	2014	
DDG 51 FLT III Contract Design	4	2013	2	2015	

Page 10 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Justification	1: PB 2012 Navy	/						DATE : Feb	ruary 2011	
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM N	IOMENCLAT	URE		PROJECT			
1319: Research, Development, Test & Evalu	ation, Navy		PE 0603564	4N: Ship Pre	l Design & F	easibility	2474: LSD	Design & To	tal Ship Integ	gration
BA 4: Advanced Component Development &	R Prototypes (AC	CD&P)	Studies							
							i			

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2474: LSD Design & Total Ship Integration	-	-	6.588	-	6.588	11.643	20.661	27.698	19.399	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

LSD(X) is expected to functionally replace LSD 41 class (8 ships) and LSD 49 class (4 ships) for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. New design efforts are required to identify viable alternatives, including examining a reduced cost variant of LPD 17 Class. FY12 efforts continue the Analysis of Alternatives (AoA) and all Milestone (MS) A documentation that began in FY11. FY13 efforts complete the AoA and MS A and begin Capabilities Development Documentation (CDD) and Preliminary Design (PD). FY10 and FY11 LSD(X) efforts are budgeted in PE 0604311N.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: LSD DESIGN/TOTAL SHIP INTEGRATION	-	-	6.588
Articles:			0
FY 2012 Plans:			
Conduct the Analysis of Alternatives (AoA) and prepare required documentation for Milestone A and Gate 2.			
Accomplishments/Planned Programs Subtotals	-	-	6.588

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Predecisional, expect competition will be part of the acquisition strategy after MS A.

E. Performance Metrics

Predecisional, performance metrics will be developed in parallel with the CDD.

Navy Page 11 of 24 R-1 Line Item #45

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

R-1 ITEM NOMENCLATURE

PROJECT

PE 0603564N: Ship Prel Design & Feasibility

2474: LSD Design & Total Ship Integration

BA 4: Advanced Component Development & Prototypes (ACD&P)

Studies

Product Development	(\$ in Millio	ns)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design/Systems Integration	C/CPFF	CSC, Alion Science:Washington, DC	-	-		4.889	Dec 2011	-		4.889	Continuing	Continuing	Continuing
Design/Systems Integration	WR	NSWC Carderock:NSWC Beth, MD	-	-		1.114	Dec 2011	-		1.114	Continuing	Continuing	Continuing
Design/Systems Integration	WR	PEO, C41:Washington, DC	-	-		0.585	Dec 2011	-		0.585	Continuing	Continuing	Continuing
		Subtotal	-	-		6.588		-		6.588			
			Total Prior Years Cost	FY2	2011		2012 se		2012 CO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	_	_		6.588		-		6.588			

Remarks

xhibit R-4, RDT&E Schedule Profile: PB 2012 Navy	DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)	R-1 ITEM NOMENCLATURE PE 0603564N: Ship Prel Design & Feasibility Studies	PROJECT 2474: LSD Design & Total Ship Integration

UNCLASSIFIED

Page 13 of 24 R-1 Line Item #45

Navy

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PROJECT

2474: LSD Design & Total Ship Integration

Studies

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2474				
Analysis of Alternatives (AoA)	4	2011	1	2013
Milestone A	2	2013	2	2013
Preliminary Design/Contract Design	2	2013	1	2016

Page 14 of 24 R-1 Line Item #45

DATE: February 2011

, ,											
APPROPRIATION/BUDGET ACTIV	/ITY		-	R-1 ITEM N	IOMENCLA	TURE	-	PROJECT	-		
1319: Research, Development, Tes	PE 060356	4N: Ship Pre	el Design & F	CC(X)							
BA 4: Advanced Component Develo	opment & Pro	totypes (AC	D&P)	Studies							
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012					Cost To	
COST (\$ III MIIIIOIIS)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
3195: <i>JCC(X)</i>	7.007	-	-	-	-	-	-	-	-	0.000	7.007
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navv

JCC(X) was planned to be a mobile, self-sustaining platform with robust C4ISR capability for a Joint Force Maritime Component Commander (JFMCC) or Joint Force Commander and staff and provides in-theater command and control should a land-based headquarters be unavailable, constrained or threatened. JCC(X) was renamed LCC(R) as the replacement for LCC 19 and 20. The LCC(R) program has been deferred. C2 capability will remain resident in LCC 19 and 20, CVNs and large-deck amphibs.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: JCC (X)	7.007	-	-
Articles:	0		
Description: Budgeted funds provide the afloat/ashore command and control (C2) feasibility study efforts and Gate Process documentation, including closeout. Evaluate ship concept options to field a ship based solution.			
FY 2010 Accomplishments: Perform R3B directed feasibility study efforts reaching Gate 2 decision. Perform close out for LCC(R) design efforts. Conduct study to evaluate ship concept options to field a ship based solution. Conduct sensitivity analysis to inform priorities and capability attributes for the LCC(R) way ahead.			
Accomplishments/Planned Programs Subtotals	7.007	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Navy Page 15 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Jus	tification: PE	3 2012 Navy							DATE: Feb	ruary 2011	
APPROPRIATION/BUDGET ACTIVATION 1319: Research, Development, Tes BA 4: Advanced Component Devel										ft	
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3226: Green Water Craft	1.425	1.359	-	-	-	-	-	-	-	0.000	2.784
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Green Water Craft which will provide maritime security and stability operations and increased maritime domain awareness in compliance with Global Maritime Security objectives and in direct support of Global Fleet Stations (GFS). Funding will provide for craft feasibility and sizing study and subsystem Mockups in support of initial craft production.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Green Water Craft	1.425	1.359	-
Articles:	0	0	
Description: In support of initial craft production, Government and contractor engineering support will conduct craft feasibility and sizing studies to be used to develop Command and Control System and Pilot House Static Mockups.			
FY 2010 Accomplishments: Began development effort to develop a concept Command, Control, Communications, Computers, Intelligence, Surveillance, Reconnaissance (C4ISR) system one line diagram for the Force Protection Coastal (FP-C). Initiated scheduling of a Technical Working Group (TWG) to validate C4ISR requirements and systems for the FP-C platform.			
FY 2011 Plans: Command and Control Mockup Delivery Mockup Awards			
Accomplishments/Planned Programs Subtotals	1.425	1.359	_

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Navy Page 16 of 24 R-1 Line Item #45

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603564N: Ship Prel Design & Feasibility

Studies

DATE: February 2011

PROJECT

3226: Green Water Craft

Product Development (\$	in Millio	ns)		FY 2	2011	FY 2 Ba	2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Craft Sizing Study	WR	NSWC:Carderock, MD	0.300	-		-		-		-	0.000	0.300	
Command and Control Mockup Design and Prototype Development	WR	NSWC:Carderock, MD	0.850	0.589	Feb 2011	-		-		-	0.000	1.439	
Pilot House Static Mockup	WR	NSWC:Carderock, MD	-	0.438	Feb 2011	-		-		-	0.000	0.438	
		Subtotal	1.150	1.027		-		-		-	0.000	2.177	

Management Services	(\$ in Millio	ns)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering Support (Green Water)	C/CPFF	CSC:Washington, DC	0.060	0.070	Feb 2011	-		-		-	0.000	0.130	
Government Engineering Support (Green Water)	WR	NSWC:Carderock, MD	0.205	0.222	Feb 2011	-		-		-	0.000	0.427	
Travel (Green Water)	Allot	NAVSEA:Washington, DC	0.010	0.040	Feb 2011	-		-		-	0.000	0.050	
		Subtotal	0.275	0.332		-		-		-	0.000	0.607	

_									
	Total Prior								Target
	Years		FY 2012	FY 2	2012	FY 2012	Cost To		Value of
	Cost	FY 2011	Base	00	co	Total	Complete	Total Cost	Contract
Project Cost Totals	1.425	1.359	-	-		-	0.000	2.784	

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603564N: Ship Prel Design & Feasibility

Studies

PROJECT

3226: Green Water Craft

		FY	201)		FY	2011	1		FY 2	2012			FY	201	3		FΥ	2014	4		FY:	201	5		FY 2	2016	ò
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 3226			•			•		*						•			•			*			*	•			•	
Green Water Craft Sizing Study Award																												
Command and Control Mockup Award																												
Green Water Craft Sizing Study Report																												_
Command and Control Mockup Delivery																												
Pilot House Static Mockup Award																												_
Pilot House Static Mockup Delivery																												

Page 18 of 24 R-1 Line Item #45

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0603564N: Ship Prel Design & Feasibility 3226: Green Water Craft

BA 4: Advanced Component Development & Prototypes (ACD&P) Studies

Schedule Details

	S	tart	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 3226				
Green Water Craft Sizing Study Award	2	2010	2	2010
Command and Control Mockup Award	2	2010	2	2010
Green Water Craft Sizing Study Report	3	2010	3	2010
Command and Control Mockup Delivery	1	2011	1	2011
Pilot House Static Mockup Award	2	2011	2	2011
Pilot House Static Mockup Delivery	1	2012	1	2012

Page 19 of 24 R-1 Line Item #45

Exhibit R-2A, RDT&E Project Just	ification: Pl	B 2012 Navy							DATE: Febr	ruary 2011	
APPROPRIATION/BUDGET ACTIV	TTY			R-1 ITEM N	OMENCLAT	URE		PROJECT			
1319: Research, Development, Test	& Evaluatio	n, Navy		PE 0603564	4N: <i>Ship Pre</i>	l Design & F	easibility	3261: <i>TAG</i>	OS Design &	Total Ship Ir	ntegration
BA 4: Advanced Component Develo	pment & Pro	ototypes (ACD)&P)	Studies							
			FV 2012	EV 2012	EV 2012					Cost To	

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3261: TAGOS Design & Total Ship Integration	-	-	9.918	-	9.918	-	-	-	-	0.000	9.918
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Preliminary Ship Design and contract efforts to support procurement of a T-AGOS Class vessel in FY13.

T-AGOS ocean surveillance ships have a single mission to gather underwater acoustical data and operate to support the anti-submarine warfare mission.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: T-AGOS Design and Acquisition	-	_	9.918
Articles:			0
FY 2012 Plans:			
Conduct necessary contract and preliminary design efforts in order to award detail design and procurement contract in FY13.			
Accomplishments/Planned Programs Subtotals	-	-	9.918

C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					Cost To	
<u>Line Item</u>	FY 2010	FY 2011	<u>Base</u>	<u>000</u>	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
• SCN/5030: TAGOS Surtass Ships	0.000	0.000	0.000	0.000	0.000	280.000	0.000	0.000	0.000	0.000	280.000

D. Acquisition Strategy

TBD

E. Performance Metrics

None

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE

PE 0603564N: Ship Prel Design & Feasibility

Base

9.918

Studies

FY 2011

Cost

Project Cost Totals

DATE: February 2011

Total

9.918

oco

3261: TAGOS Design & Total Ship Integration

Total Cost

9.918

Contract

Complete

0.000

Management Services	Cost Category Item & Type Activity & Local Contractor Engineering apport (T-AGOS) Overnment Engineering apport (T-AGOS) Outractor Engineering apport (T-AGOS)	ons)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Method	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering Support (T-AGOS)	C/CPFF	CSC:Washington DC	-	-		4.893	Jan 2012	-		4.893	0.000	4.893	
Government Engineering Support (T-AGOS)	WR	NSWC:Caderock MD	-	-		2.500	Jan 2012	-		2.500	0.000	2.500	
Contractor Engineering Support (T-AGOS)	C/CPFF	ALION:Washington DC	-	-		2.500	Jan 2012	-		2.500	0.000	2.500	
Travel	Various	NAVSEA:WNY Washington DC	-	-		0.025	Jan 2012	-		0.025	0.000	0.025	
		Subtotal	-	-		9.918		-		9.918	0.000	9.918	
			Total Prior Years			FY 2	2012	FY:	2012	FY 2012	Cost To		Target Value of

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 ITEM NOMENCLATURE
PE 0603564N: Ship Prel Design & Feasibility
Studies

PROJECT
3261: TAGOS Design & Total Ship Integration

		FY	2010)		FY	2011			FY 2	2012		ı	FY 2	2013	3		FY 20	14		ı	FY 2	2015		ı	FY 2	2016	;
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Proj 3261								•	•	•								,		·								
Preliminary Contract Design																												
Detail Design & Construction Award																												
Start of Construction (SOC)																												

Navy Page 22 of 24 R-1 Line Item #45

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 4: Advanced Component Development & Prototypes (ACD&P)

PATE: February 2011

R-1 ITEM NOMENCLATURE
PE 0603564N: Ship Prel Design & Feasibility
Studies

Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 3261				
Preliminary Contract Design	1	2012	3	2013
Detail Design & Construction Award	4	2013	4	2013
Start of Construction (SOC)	4	2014	4	2014

Page 23 of 24 R-1 Line Item #45

Exhibit R-2A, RD1&E Project Just	stification: PE	3 2012 Navy	<i>'</i>						DAIE: Feb	ruary 2011	
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
1319: Research, Development, Test & Evaluation, Navy			PE 0603564N: Ship Prel Design & Feasibility				9999: Congressional Adds				
BA 4: Advanced Component Deve	4: Advanced Component Development & Prototypes (ACD&P) Studies										
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012					Cost To	
	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
9999: Congressional Adds	10.198	-	_	-	-	_	_	_	_	0.000	10.198

0

0

0

0

0

A. Mission Description and Budget Item Justification

0

0

Congressional Adds.

Quantity of RDT&E Articles

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011
Congressional Add: Low Signature Defensive Weapon System for Surface Combatant Craft		-
FY 2010 Accomplishments: Low Signature Defensive Weapon System for Surface Combatant Craft		
Congressional Add: SUPPORT FOR NAVAL SHIP HYDRODYNAMICS TEST FACILITI	3.187	-
FY 2010 Accomplishments: This effort will fund the contract to continue developing components for the wavemaking system in the Maneuvering and Seakeeping (MASK) Basin.		
Congressional Add: Bow Lifting Body Ship Research	3.187	-
FY 2010 Accomplishments: Continue developing and transitioning lifting body technologies to support future acquisition programs that consider single hull configurations.		
Congressional Adds Subtotals	10.198	-

0

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Congressional Adds.

Navy Page 24 of 24 R-1 Line Item #45